File

(Page 1 of 3)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-105 Relating to Certification of New Motor Vehicles

FUJI HEAVY INDUSTRIES, LTD.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1998 model-year Fuji Heavy Industries, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: WFJXV02.5DCD Displacement: 2.5 Liters (150 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converters (two)
Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon Monoxide (20°F)	
50,000	0.125	3.4	0.4	0.015	10.0	
100,000	0.156	4.2	0.6	0.018	n/a	

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98 RAF for 1998 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>	
50,000 100,000	0.084 0.095	1.2	0.1	0.001 0.001	6.0 n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 24 day of March 1997.

R. B. Summerfield, Chief

Mobile Source Operations Division

E.O # A-	2-105
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1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Page_1_ of _1_

Manufacture	r: <u>Fuji Heavy Indu</u>	stries L	.td.	Exh Eng:	ine Family:	WFJXV02.5	DCD	
Evap Std:	50K Useful Life	with R/	'L_X1	Evap En	gine Family:	WFJXE0110	1BA	
Exh Std: Ti	er-0 Tier-1 T	LEV <u>x</u>	LEV	ULEV	_ ZEV ; E	PA Tier-O	Tier-1	
Veh Class(e	s): PC <u>x</u> LDT1	LDT2_	MDV 1	MI	DV2MDV3	MDV4	MDV5	
NMOG TEST Proc. SMX Equiv R/L TEST Proc. Pt. Source X ORVE. No X								
Exh Cert Fu	Exh Cert Fuel(s): Indo Ph2_x Diesel: 13 CCR 2282 or 40 CFR 86.113-90 or -94							
	M85 CNG LPG Other (specify)							
Fuel Type(s): Dedicated x Flex-Fuel Dual-Fuel Gasoline x Diesel M85								
CNGLNGLPGOther (specify)								
Hybrid: Typ	Hybrid: Type ABC, APU Cycle (e.g., Otto, Diesel, Turbine)							
Engine Configuration: H04 Displacement: 2.5 / Liters 150 / Cubic Inches								
Engine: Front x Mid Rear Drive: FWD RWD 4WD-FT x 4WD-PT								
TO COLOR DE								
Exhaust ECS (eg., EGR, MF1, TC, CAC): EGR, HO2S(2), IWC(2), SF1 (use abbreviations per SAE J1930 SEP91) Engine Vehicle Models Trans. ETW DPA Ignition EGR Catalytic								
Engine	Vehicle Models	Trans.	ETW	DPA	Ignition	EGR	Catalytic	
'CA/49ST		A-Auto			(ECM/PCM)	System Part No.	Converter Part No.	
OST		M-Man.]	
W2.5TMA	FORESTER 5D AWD Base FORESTER 5D AWD L	M-5	3375	10.3	Electronic Control	EGR Valve: Mitsubishi	Fuji's Part No.	
	FORESTER 5D AWD S		3313	9.6	1	K005T75071	Front:	
W2.5TAA		A-4	3500	10.1	Fuji's Part	1 -	20805AB100	
	FORESTER 5D AWD S		3500	9.1	No. 22611AC980	No. 14710AA530	Rear:	
					122011110900	,		
							1	
		TT 1			0 CER 86 CON	26(2)(2)	<u> </u>	

#The model is tested at higher ETW in accordance with 40 CFR 86.094-26(a)(2).

Date Issued: 1/17/'97

Revisions: